

SCS ENGINEERS

March 28, 2008
File No. 02199312.02-2

Mr. Johnny Beal
Facility Manager
Wake County Solid Waste Management Division
PO Box 550
Raleigh, North Carolina 27609



Subject: Landfill Gas Monitoring Results – February 19, 2008
North Wake Landfill – Raleigh, North Carolina

Dear Mr. Beal:

SCS Engineers, PC (SCS) is pleased to submit the results of the Monthly Landfill Gas (LFG) Monitoring Event, performed at the North Wake County Landfill on February 19, 2008. This monitoring was performed in accordance with the updated Landfill Gas Remediation Plan, dated 7/12/07. A memorandum discussing the results from the Fourth Quarter Monitoring Event performed on 12/27/07, which indicated elevated methane levels at several probes, was distributed to Wake Gas Producers (WGP) and Wake County on 12/31/07. Correspondence serving as notification of the methane exceedances detected at LFG monitoring probes M-3, M-22, M-23, M-24, and M-26 was submitted to NCDENR on 1/3/08.

SCS used a GEM-500 Infrared Gas Analyzer to measure subsurface concentrations of methane, carbon dioxide, oxygen, balance gas, and pressure at the five gas monitoring probes that previously exhibited methane levels in excess of the regulatory limit. The monitoring results are presented in Exhibit 1.

As presented on Exhibit 1, the methane concentrations have decreased in LFG probes M-3, M-22, M-23, and M-24 below the compliance threshold. Methane concentrations measured increased in probe M-26 continue to be greater than the regulatory limit.

SCS will conduct monitoring at these five probes on a monthly basis until they demonstrate measurements below the compliance threshold for three consecutive months as stipulated in the updated LFG Remediation Plan.

WGP has increased the applied vacuum to the perimeter migration control system per our request, but the methane levels in LFG probe M-26 remain elevated. SCS is investigating solutions to remediate the probe. SCS suggests a meeting with the County and WGP be scheduled to discuss our recommendations.



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EXHIBIT 1. LANDFILL GAS MONITORING PROBES NORTH WAKE LANDFILL - WAKE COUNTY, NORTH CAROLINA

Date: February 19, 2008
Project No: 02199312.02-2
Weather: Sunny 60°F

Personnel: DBK
Equipment: GEM-500

Monitoring Probe No.	Time (24-hr)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Pressure (in-wc)
M 1	NM	NM	NM	NM	NM	NM
M 2	NM	NM	NM	NM	NM	NM
M 3	15:09	0	0	20.3	79.7	0
M 4	NM	NM	NM	NM	NM	NM
M 5	NM	NM	NM	NM	NM	NM
M 6R	NM	NM	NM	NM	NM	NM
M 7	NM	NM	NM	NM	NM	NM
M 8	NM	NM	NM	NM	NM	NM
M 9	NM	NM	NM	NM	NM	NM
M 10	NM	NM	NM	NM	NM	NM
M 11	NM	NM	NM	NM	NM	NM
M 12	NM	NM	NM	NM	NM	NM
M 13	NM	NM	NM	NM	NM	NM
M 14	NM	NM	NM	NM	NM	NM
M 15	NM	NM	NM	NM	NM	NM
M 16	NM	NM	NM	NM	NM	NM
M 17	NM	NM	NM	NM	NM	NM
M 18	NM	NM	NM	NM	NM	NM
M 19	NM	NM	NM	NM	NM	NM
M 20	NM	NM	NM	NM	NM	NM
M 21	NM	NM	NM	NM	NM	NM
M 22	14:53	0	0.1	20.1	79.8	0
M 23	14:59	0	0.1	20.2	79.7	-0.2
M 24	15:03	0	0.1	20.3	79.6	-0.3
M 25	NM	NM	NM	NM	NM	NM
M 26	15:16	50.9	36.6	2.3	10.2	0

Notes:

NM = Not Monitored

Interior Monitoring Location	Methane (% vol)
Scale House	NM
Front Office	NM
Bathrooms (2)	NM
Hallway	NM
Kitchen	NM
Admin. Offices	NM
Offices (4)	NM
Reception Area	NM
Bathrooms (2)	NM
Conference Area	NM
Kitchen	NM
Storage Area	NM
Drop Off/Transfer	NM
Office	NM
Service Bay	NM
Maintenance Shop	NM
Service Bay	NM
Equipment Maintenance Trailer	NM
Offices (2)	NM
Bathroom	NM
Conference Area	NM
Field Storage Building (Wake County)	NM
Service Bay	NM
Drop Off/Transfer	NM
Offices (6)	NM
Bathrooms (2)	NM
Conference Area	NM
Break Room/Kitchen	NM
Reception	NM
Sign Shop	NM
Copy/Storage Room	NM
Project Room	NM
Tool Room	NM
Shipping and Receiving	NM